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TITLE : RAW MATERIAL FOR MAGNETIC HEAD CORE

ABSTRACT : PURPOSE: To obtain the raw material which shows high permeability as a laminated magnetic core material and whose eddy current loss is small even though the number of the lamination are decreased by stacking Fe-Ni series alloy of a specified composition in two or more layers.

CONSTITUTION: Alloy comprising 70-90wt% Ni; 10wt% or less (0.1-7wt% is suitable) of one or more kinds of Mo, W, Cr, Nb, Ta, Ti, Cu, Co, Si, Mn, and Al; and Fe for the rest is clad in two or more layers. For example, alloy comprising 77% Ni, 5% Cu, 4% Mo, 0.5% Mn, and Fe for the rest is clad in two layers by hot working at 1,100°C or by cold working, thereby a plate having a thickness of 0.1mm is obtained. In this method, the raw material which shows high permeability as the laminated magnetic core material, and whose eddy current loss is small even though the number of the lamination is small can be obtained.

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